PENDING CLAIMS AND STATUS THEREOF

1. (Previously Amended) A method of fracturing a subterranean formation comprising the steps of:

injecting a fracture fluid into a centrifugal pump;
injecting a controlled amount of a sand suspension into the centrifugal pump;
mixing the fracture fluid and sand suspension in the centrifugal pump;

discharging the mixture of the sand suspension and fracture fluid from the centrifugal pump;

measuring the concentration of the mixture being discharged from the centrifugal pump and comparing the measured concentration of the mixture to a desired concentration of the mixture;

varying the amount of the sand suspension being injected into the centrifugal pump with a control pinch valve until a the desired concentration of the mixture is attained; and pumping the mixture downhole into the subterranean formation using a separate pump.

- 2. (Original) A method of fracturing a subterranean formation according to claim 1 further comprising the step of injecting a liquid additive into the centrifugal pump.
- 3. (Original) A method of fracturing a subterranean formation according to claim 1 wherein the fracture fluid comprises a liquid selected from the group consisting of water, gelling agent, brine, acid, oil, foam and mixtures thereof.
- 4. (Original) A method of fracturing a subterranean formation according to claim 3 wherein the oil has been recovered from the subterranean formation being fractured.

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5. (Original) A method of fracturing a subterranean formation according to claim 1 wherein the sand suspension comprises a mixture of xanthan in a concentration of about 60 lb./gal and sand in a concentration of about 20-24 lb./gal.

- 6. (Previously Amended) A method of fracturing a subterranean formation according to claim 5 wherein the sand suspension further comprises water.
- 7. (Original) A method of fracturing a subterranean formation according to claim 2 wherein the liquid additive comprises a liquid selected from the group consisting of a breaker fluid, a clay control fluid, a cross-linking agent, a pH control agent and mixtures thereof.
- 8. (Previously Amended) An apparatus for fracturing a subterranean formation comprising: a control valve that meters flow of a sand suspension;

a centrifugal pump having an inlet into which the sand suspension is injected and an outlet out of which a mixture of the sand suspension and a fracture fluid is discharged;

means for measuring the concentration of the mixture being discharged from the centrifugal pump, comparing the measured concentration of the mixture to a desired concentration of the mixture and sending control signals to the control valve to vary the amount of the sand suspension being injected into the centrifugal pump until the desired concentration of the mixture is attained; and

a separate pump that pumps the mixture discharged from the centrifugal pump downhole into the subterranean formation.

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9. (Previously Amended) An apparatus for fracturing a subterranean formation according to

claim 8 wherein the means comprises an electronic control system that comprises a flow

meter and densometer that measure the flow rate and viscosity, respectively, of the mixture

being discharged from the centrifugal pump and a microprocessor connected to the flow

meter, densometer, and control valve.

10. (Previously Amended) An apparatus for fracturing a subterranean formation according to

claim 8 further comprising another centrifugal pump disposed between the control valve and

the centrifugal pump that injects the sand suspension into the centrifugal pump.

11. (Previously Amended) An apparatus for fracturing a subterranean formation according to

claim 9 further comprising a positive displacement pump that injects a liquid additive into the

centrifugal pump.

12. (Previously Amended) An apparatus for fracturing a subterranean formation according to

claim 11 wherein the positive displacement pump is electronically connected to the electronic

control system.

13. (Original) An apparatus for fracturing a subterranean formation according to claim 8 wherein

the downhole pump comprises two positive displacement pumps electrically coupled to one

another by a Local Area Network cable.

14. (Original) An apparatus for fracturing a subterranean formation according to claim 8 wherein

the sand suspension comprises a mixture of xanthan in a concentration of about 60 lb./gal,

sand in a concentration of about 20-24 lb./gal, and water.

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- 15. (Original) An apparatus for fracturing a subterranean formation according to claim 8, wherein the fracture fluid comprises a liquid selected from the group consisting of water, gelling agent, brine, acid, oil, foam and mixtures thereof.
- 16. (Original) An apparatus for fracturing a subterranean formation according to claim 11 wherein the liquid additive comprises a liquid selected from the group consisting of a breaker fluid, a clay control fluid, a cross-linking agent, a pH control agent and mixtures thereof.